



ENHANCING CAPACITY FOR LOW EMISSION DEVELOPMENT STRATEGIES (EC-LEDS) CLEAN ENERGY PROGRAM

QUARTERLY PROGRESS REPORT

JANUARY 1, 2016 - MARCH 31, 2016

COOPERATIVE AGREEMENT NO. 114-A-13-00008



April, 2016

This publication was produced for review by the United States Agency for International Development. It was prepared by Winrock International

ENHANCING CAPACITY FOR LOW EMISSION DEVELOPMENT STRATEGIES (EC-LEDS) CLEAN ENERGY PROGRAM

QUARTERLY PROGRESS REPORT

JANUARYI, 2016 - MARCH 31, 2016

Date of Submission: April, 2016

DISCLAIMER

The author's views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States Government.

TABLE OF CONTENTS

Table	of Contents	ii
Acron	nyms	iv
l.	Executive Summary	1
II.	Year three, quarter two highlights	3
A.	Progress to date	3
B.	Component One Highlights	4
C.	Component Three Highlights	5
III.	Activities Completed during Year Three, quarter two	6
A.	Component One: Georgian Municipal Energy Efficiency (GeMunee)	6
B.	Component Two: Green Building Rating and Certification System- completed	10
C.	Component Three: National EC-LEDS Working Group and Advisory Assistance	10
D.	Project Administration	13
E.	Lessons Learned	14
F.	Environmental Protection Activities	14
G.	Cross-Cutting Activities	15
IV.	Year three Work Plan: Deliverables Submitted in Year three Quarter one	19
Annex	x I: Schedule of Planned Future Events	43
A.	Component One	43
В.	Component Two	43
C.	Component Three	43
D.	Public Outreach	43
E.	Environmental Compliance	44
Annex	x II: Quarter three Planned Deliverables and Products	45
A.	Component One	45
B.	Component Two	45
C.	Component Three	45
D.	Communications and Outreach	45
E.	Monitoring and Evaluation	45
F.	Environmental Compliance	45
Anne	x III: Report on EC-LEDS youth Energy Efficiency Event	47
execu	itive summary	
youth	ee event	50
Par	ticipants	50
Cor	ntent	50
PRE	ESENTER	50

VENUE, Timing and Logistics	51
conclusion	
attachment A: contest questionnaire	
attachment C: Awards	
Annex IV: Media coverage report	58

ACRONYMS

AD Analytic Department

AOR Agreement Officer's Representative

American Society of Heating, Refrigerating and Air-Conditioning Engineers **ASHRAE**

BAU **Business as Usual** BP **British Petroleum**

BREEAM Building Research Establishment Environmental Assessment Method

CBSM Community Based Social Marketing

Climate Change CC

CFL Compact Fluorescent Lightbulb

Covenant of Mayors CoM Chief of Party COP

Development Credit Authority DCA

Deputy Chief of Party **DCOP DWG** Decision Ware Group

EB **Energy Balance**

EBRD European Bank for Reconstruction and Development

EC-LEDS Enhancing Capacity for Low Emission Development Strategies E5P Eastern European Energy Efficiency and Environment Partnership

FF **Energy Efficiency**

Energy Performance of Buildings Directive EPBD

FU European Union **EWG Expert Working Group** Fast Forward Communications **FFC**

G4G Governance for Growth

GALA Georgian Association of Landscape Architects

GB Green building

GBCG Green Building Council Georgia **GDP Gross Domestic Product**

GE Georgia

Grants Evaluation Committee GFC GeMunee Georgian Municipal Energy Efficiency

GHG Greenhouse gases

Intended Nationally Determined Contribution GIZ

GOG Government of Georgia GTU Georgian Technical University International Code Council **ICC**

IECC International Energy Conservation Code Intended Nationally Determined Contribution **INDC**

Joint Research Center IRC Low emission development **LED**

Leadership for Energy and Environment Design **LEED LEDS** Low Emission Development Strategy (ies)

MOE Ministry of Energy

Ministry of Environment and Natural Resources Protection **MoENRP**

Ministry of Economy and Sustainable Development **MoESD**

MOU Memorandum of Understanding Monitoring, Reporting and Verification **MRV**

Muni-EIPMP Municipal Inventory, Projection and Mitigation Planning

Nationally Appropriate Mitigation Actions NAMA Non-Governmental Organization(s) NGO(s)

NTC New Technology Fund

PEA Programmatic Environmental Assessment PR Public Relations

PSA Public Service Announcement

PWD People with Disabilities
RFP Request for Proposals
SC Steering Committee

SCM Steering Committee Meeting

SDAP-Center Sustainable Development and Policy Center

SEAP Sustainable Energy Action Plan SEO Sustainable Energy Office

SIDA Swedish International Development Cooperation

SWG Sub-Working Group

TEC Tender Evaluation Committee

TOT Train-the-Trainer

USA United States of America

USAID United States Agency for International Development

USG United States Government

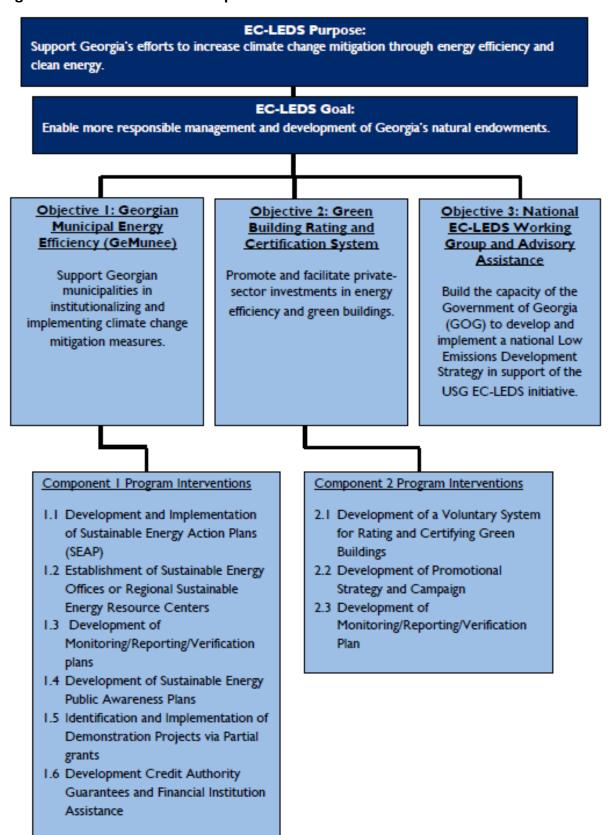
I. EXECUTIVE SUMMARY

Georgia's Enhancing Capacity for Low Emission Development Strategies (EC-LEDS) Clean Energy Program, funded by the United States Agency for International Development (USAID), is a four-year (October 2013 – September 2017) effort focusing on three activities: I) Georgian Municipal Energy Efficiency (GeMunee); 2) Green Building Rating and Certification System; and 3) National EC-LEDS Working Group and Advisory Assistance. USAID awarded Winrock International a cooperative agreement to implement Georgia's EC-LEDS Clean Energy Program to support climate change mitigation by building municipal capacity in climate change mitigation measures and raising public awareness; increasing private sector investment in energy efficiency (EE) and green buildings (GB); and strengthening Government of Georgia (GOG) capacity to develop and implement a national Low Emission Development Strategy (LEDS). This report describes year three, quarter two activities of the EC-LEDS Clean Energy Program covering the period January 1, 2016 through March 31, 2016.

The objectives of the EC-LEDS program are to (1) support Georgian municipalities in institutionalizing and implementing climate change mitigation measures, (2) promote and facilitate private sector investment in energy efficiency and green buildings, and (3) build the capacity of the GOG to develop and implement a national Low Emission Development Strategy in support of the United States Government (USG) EC-LEDS initiative. During the four years, the EC-LEDS Clean Energy Program is expected to reduce greenhouse gas (GHG) emissions in Georgia by at least 236,372.9 metric tons of CO₂ equivalent, facilitate up to \$14 million in private sector investments in clean energy, and lead to energy savings of up to 315 GWh (the equivalent of approximately \$22 million).

Figure 1, EC-LEDS Activities Map, illustrates the project purpose, goal, the objectives, and the program initiatives associated with each objective.

Figure I. EC-LEDS Activities Map



II. YEAR THREE, QUARTER TWO HIGHLIGHTS

A. PROGRESS TO DATE

A summary of progress through end of year three, quarter two by selected indicators is provided below. If total cumulative actual to date is zero, the indicator is not included in the table below.

Table I. Summary of Total Cumulative Actuals vs. LOP Target by Output and Outcome Indicators

Indicator	Туре	Total Cumulative Actual (YI+Y2+Y3/Q2)	Y3 Target	LOP Target
OC2: Quantity of greenhouse gas (GHG) emissions, measured in metric tons of CO2equivalent (CO2 _e), reduced or sequestered as a result of USG assistance	Outcome	0	55,000	236,000
OC3:Energy saved due to energy efficiency/conservation projects as a result of USG assistance	Outcome	0	75,000	315,000
OC4:Number of private sector clean energy investments	Outcome	3.36	3.64	14
OC5: Number of local organizations positioned to receive USG funding and implement USG projects as a result of ECLEDS assistance	Outcome	0	1	ı
OC6:Percentage of individuals reached by the public awareness campaign who take at least one energy saving action	Outcome	0	10%	10%
OC7: Expected lifetime energy savings from energy efficiency or energy conservation, as a result of USG assistance (OC7)	Outcome	19,929,600	44,583,406	
OC8:Projected greenhouse gas emissions reduced or avoided through 2030 from adopted laws, policies, regulations, or technologies related to clean energy as supported by USG assistance	Outcome	1,699,549	3,237,402	
OP1:Number of low emission development plans developed and/or implemented as a result of USG assistance (LEDS, SEAP, other)	Output	8	3	10
OP2: Number of Sustainable Energy Offices (SEOs) or regional Sustainable Energy Resource Centers established in participating municipalities	Output	0	2	5
OP4: Number of stakeholders using climate information in their decision-making as a result of USG assistance.	Output	20	2	16
OP5: Number of laws, policies, strategies, plans, agreements or regulations addressing climate change mitigation officially adopted or implemented/proposed with USG assistance	Output	I	1	3

Indicator	Туре	Total Cumulative Actual (YI+Y2+Y3/Q2)	Y3 Target	LOP Target
OP6: Number of climate change mitigation tools, technologies or methodologies developed, tested and/or adopted as a result of USG assistance	Output	2	2	2
OP7:Number of		0	1,000	1,500
households/businesses/public institutions	_	0	8	10
implementing energy efficiency measures as a result of USG assistance (# HHs, # businesses, # institutions)	Output	0	8	10
OP8: Number of climate change mitigation projects implemented as result of USG assistance	Output	2	15	20
OP10: Number of individuals reached through outreach campaigns	Output	521,518	250,000	1,000,000
OP II: Number of USG-supported training or activities that contribute to building the EE knowledge and skills in the GOG, Municipalities, industry and other stakeholders	Output	40	14	50
OP13:Value of grants disbursed as a result of USG assistance for scientific research and energy efficiency pilot projects	Output	\$ 175,012.00	\$ 324,988.00	\$ 500,000.00
OP14:Number of promotional plans and campaigns implemented to increase awareness of citizens about energy efficiency	Output	2	2	2
OP15: Number of beneficiaries receiving improved infrastructure services due to USG assistance	Output	0	2	3
OP17: Number of Monitoring, Reporting, and Verification (MRV) plans developed to track the impact of SEAP implementation	Output	8	3	10
OP18: Number of individuals at national and local level trained in climate change as a result of USG assistance	Output	349	20	70
OP22: Number of decisions made by LEDS steering committee or involved agencies using analysis based on MARKAL or other appropriate tools	Output	2	2	2

B. COMPONENT ONE HIGHLIGHTS

- Georgian Version Bolnisi Municipality SEAP was finalized.
- Work on Telavi Municipality SEAP on local level commenced with technical support by Remissia experts.

- The workshop on parameters and techniques for SEAP implementation monitoring was conducted on March 31 in Coste Hotel Tbilisi. 8 municipality representatives attended the workshop.
- EC-LEDS held meetings with Kutaisi, Zugdidi and Batumi municipalities to discuss and plan
 concrete steps toward establishing SEOs. As a result, EC-LEDS and municipalities agreed that
 the municipalities would incorporate SEO functions into their Economic Development
 Departments. EC-LEDS is currently assisting municipalities in drafting amendments to the
 department charters, developing recommendations about SEO functions and staffing plan
 required to implement said functions.
- EC-LEDS tender evaluation committee selected three projects for round two of the partial grants program. The projects will be implemented in Akhaltsikhe, Rustavi and Telavi City municipalities.
- EC-LEDS selected vendors for Batumi and Zugdidi Street lighting projects.

C. COMPONENT THREE HIGHLIGHTS

- Winrock intensified activities under Component three on updating MARKAL-Georgia.
 The EC-LEDS team made all-important changes to the model templates; including
 shifting the base year from 2012 to 2014 and recalibrate. As such, MARKAL-Georgia is
 fully up to date.
- Several sensitivity scenarios (for Gross Domestic Product (GDP) and population growth) were prepared and the results were provided to the Climate Change Office of the Ministry of Environment and Natural Resources Protection
- Based on the research and findings of the analyzed sectors Winrock worked out the total amount of emissions and calculated Business As Usual Emissions (BAU) – for both energy BAU and non-energy BAU scenarios.
- At the request of the climate change (CC) office EC-LEDS made a special focus on the emissions from transport sector and related air pollutions
- EC-LEDS arranged working meetings of the Transport and Industry sub-working groups (SWGs) at the Ministry of Economy and Sustainable Development, discussed the issues related to the emission from the transport sector and provided consultancy and advisory services.
- The preliminary list of mitigation measures that will be analyzed using MARKAL-Georgia were provided to the Ministry of Energy for their analysis.
- Development of sectoral overviews for LEDS document is underway.
- On the job training for the Ministry of Energy Analytic Department staff was conducted on a regular basis.

III. ACTIVITIES COMPLETED DURING YEAR THREE, QUARTER TWO

A. COMPONENT ONE: GEORGIAN MUNICIPAL ENERGY EFFICIENCY (GEMUNEE)

- i. Develop and Implement Sustainable Energy Action Plans (SEAPs)
- I. Develop Muni-EIPMP Analytical Tool

During this quarter, EC-LEDS tested and updated the muni-EIPMP tool under the context of developing the Bolnisi Municipality SEAP. The testing and updating will continue as the remaining two SEAPs are developed during the remainder of Year three.

2. <u>Develop and Conduct Workshops and On-the-Job Training on SEAP Development</u>
and Monitoring

During this quarter, EC-LEDS held or participated in four main events; three municipality-specific working meetings and one SEAP monitoring workshop. The details on each event are provided below.

On March 31, 2016, EC-LEDS conducted a workshop on SEAP monitoring parameters and techniques in Coste Hotel Tbilisi. Representatives of eight municipalities attended the workshop. Three Remissia experts gave five presentations on several topics, including: (1) monitoring of mitigation measures, (2) necessary parameters for monitoring per sector, (3) review of the monitoring template on the CoM web site, (4) the muni-EIPMP tool itself, and (5) possible institutional arrangements for an effective monitoring process. In the second half of the workshop, the participants were divided into three working groups to undertake practical exercises on monitoring issues.

Secondly, the Remissia team conducted a working meeting at Bolnisi Municipality with the participation of several Unit and Services representatives (Head of Infrastructure Unit; Head of Ltd. "Municipal Transport of Municipality, etc.) and local experts hired to support the data gathering process locally. The Remissia expert team facilitated the discussion on future mitigation actions in all SEAP sectors. At the end of the working meeting, the representatives of the Municipality identified a considerable number of mitigation actions to be included in the SEAP document. The Remissia expert team also met with the local farmers of Bolnisi Municipality and representatives of the Agriculture Agency to identify potential entry points for CO₂ emission reductions in the agriculture sector through SEAP mitigation actions as well as possible project proposals.

The first working meeting with the SEAP coordinator and local experts in Telavi municipality took place to discuss the types of needed data and techniques for efficient data collection. Remissia experts shared the experience of other municipalities and provided technical guidance. Participants

of the working group discussed and agreed upon a time schedule for development of the SEAP document.

Remissia participated in the workshop organized by Tbilisi City Hall in partnership with Fraunhofer Institute on the topic of Morgenstadt City Lab Tbilisi. The aim of the workshop was to support further development of the ideas for the projects and measures to help boost Tbilisi's sustainable development.

3. Assist in Developing, Revising, and Updating SEAPs for municipalities with Priority Needs

During this quarter, EC-LEDS finalized the Georgian version of Bolnisi Municipality's SEAP with active participation of Bolnisi Municipality representatives and local experts, the team also received technical support and supervision from Remissia experts. As this was the first time the team worked on an a SEAP from the entire municipality level, the working processes took more effort and time to finalize on time. A novelty of Bolnisi's SEAP is agriculture sector chapter which the team elaborated based on consultations with local farmers. This innovative aspect of the SEAP covers measures to reduce CO₂ emissions from energy use in the agriculture sector. Bolnisi SEAP is accompanied by a MRV Plan and as well as a communication strategy.

Additionally, local experts are progressing with their work on Telavi's SEAP. The experts are regularly collecting and analyzing the data for different sectors. Remissia experts are in regular communication with them and provide technical guidance and supervision as needed and requested.

ii. Establish Sustainable Energy Offices or Regional Sustainable Energy Resource Centers

During this quarter, EC-LEDS made great strides under this task with Kutaisi, Zugdidi, Batumi, and Akhaltsikhe municipalities.

In February 2016, EC-LEDS held meetings with Kutaisi, Zugdidi, and Batumi municipalities to establish a plan and develop concrete steps toward establishing SEOs. The municipalities agreed to incorporate SEO functions into their Economic Development Departments. EC-LEDS is currently providing assistance to municipalities in drafting amendments to their department charters, developing recommendations about SEO functions, and developing staffing plans required to implement said functions.

In March, the EC-LEDS team, together with a legal advisor, travelled to Akhaltsikhe to meet with municipality representatives and identify areas where the municipality needed assistance in setting up and launching Sustainable Development Agency activities. At the meeting, the parties agreed that EC-LEDS would review the agency's charter to ensure that all CoM functions are included and would revise the charter to allow for flexibility in the agency's activities and areas of work, further enhancing its sustainability.

iii. Develop Monitoring/Reporting/Verification (MRV) Plans

The EC-LEDS team developed the MRV Plan for Bolnisi Municipality's SEAP, along with the actual SEAP document.

iv. Develop Sustainable Energy Public Awareness Plans

In the reporting period, EC-LEDS updated the National Communications Plan developed in year one. The Program will continue to take a two-pronged strategic approach to communications: I) broad information campaigns at the national and local levels to raise general energy efficiency and conservation awareness; and, 2) community-based social marketing to change targeted behavior in selected communities. This quarter in particular, EC-LEDS worked with Kutaisi City Hall.

Kutaisi City Hall addressed EC-LEDS with an official letter requesting to change the planned greening activities under Kutaisi's Community Based Social Marketing (CBSM) campaign. The City Hall made a decision to arrange an energy efficient public park, which will be located above the underground on Rustaveli Avenue in the central-historical district of the city. The location is crucial as it includesmany places of public gathering, including: public transport stops, tourism information center, Art Gallery, Public School #I, Golden Marquee, mixed market, and various merchant entities located in the underground. The park will serve as a recreation area for the residents of Kutaisi as well as tourists.

Kutaisi City Hall plans to install the Daisy-shaped "Solar Tree" equipped with solar elements and modern technologies including USB charging points (for cell phones, notebooks, and other electrical devices), WI-FI, electronic library, benches and greening (the park will be surrounded with bush plants) and solar energy lighting. As a signatory to the Covenant of Mayors (COM), Kutaisi City Hall's strategy for reduction of GHG emissions envisages reduction of energy consumption using economical accessible energy efficient/renewable energy technologies.

EC-LEDS decided to support the request of Kutaisi Municipality and back the installation of a Solar Tree as part of its CBSM Campaign in Kutaisi. The draft report on the CBSM campaign design was finalized and submitted to USAID in January.

The CBSM launch ceremony will be held during the celebration of Kutaisoba holiday, which due to the Easter holidays, was postponed from the originally planned date of May 2nd to the beginning of June 2016.

v. Identify and Implement Demonstration Projects through Partial Grants

During the reporting period, EC-LEDS continued to work on selecting grant recipients for round two of the partial grants program announced in October 2016. EC-LEDS tender evaluation committee submitted their additional questions for each applicant to EC-LEDS at the December 24, 2015 meeting. EC-LEDS then sent questions to applicants individually and asked for responses before the January 12, 2016 deadline. As the committee members deemed the responses submitted by applicants insufficient, EC-LEDS decided to hold individual interviews with each applicant. EC-LEDS discussed additional questions provided by the committee members at these meetings and asked the applicants to submit responses to questions along with revised applications and any additional documents requested no later than February 12, 2016.

EC-LEDS held the final meeting of the committee on February 29, 2016, where the committee members discussed the revised applications, provided their final scores, and issued recommendations for award. Table 2 below lists applications recommended for award along with their final evaluation scores.

Table 2.Grant Applications Recommended for Award

City	Applicant Name	Grant Project Title	Requested Grant Amount (USD)	Total Project Cost (USD)	Final Evaluation Score
Akhaltsikhe	Akhaltsikhe City Municipality	Energy Savings in Lighting Systems at Rabati Castle (Akhaltsikhe)	50,000	246,345	475
Rustavi	GEREUA	Heidelberg Cement Georgia CM3 Research and Renovation (Rustavi)	49,938	349,938	465
Telavi City	New Technology Center	Green Recreation Zone in Telavi City	50,000	829,167	515
		Total	149,938	1,425,450	

As the above table shows, the committee recommended three applications for award.

EC-LEDS submitted a grant selection memo to USAID and received approval. Currently, EC-LEDS is finalizing agreements with the sub-recipients.

During this reporting period, EC-LEDS continued tender evaluation process for Batumi and Zugdidi Street lighting projects.

EC-LEDS sent all Tender Evaluation Committee (TEC) members evaluation forms and asked them to evaluate each candidate according to the procedures discussed at the TEC meetings. EC-LEDS disqualified one bidder, Vyrtych, due to incompliance with source country requirements. As such, the TEC members evaluated seven bids, with two bids being from the same company, UGT. All six bidders, being Georgian and US companies, complied with geographic code, source and nationality

requirements. In addition, EC-LEDS requested all qualified bidders to provide quality certificates for their proposed products. As a result, GTG (Phillips representative), and Enterra (OMS representative) provided international quality certificates, with other companies not being able to provide international certificates; UGT provided an Ukrainian quality certificate, and other bidders provided no certificates. EC-LEDS shared all of the above-mentioned information and documents with TEC members, and the members evaluated the bids for Batumi and Zugdidi separately.

As a result of the evaluation process, the TEC members selected GTG as the vendor for Zugdidi and EnTerra for Batumi.

vi. Development Credit Authority Guarantees and Financial Institution Assistance

EC-LEDS held a meeting at Tbilisi City Hall with the Head of the Economic Policy Department and the Head of Kindergarten Agency. The purpose of the meeting was to introduce the Kindergarten Agency Head to the concept proposal developed by EC-LEDS on the energy efficiency rehabilitation program for Tbilisi Kindergartens. If the Kindergarten Agency decides to go ahead with the project, EC-LEDS will assist them in obtaining funding for the project.

B. COMPONENT TWO: GREEN BUILDING RATING AND CERTIFICATION SYSTEM- COMPLETED

In September 23, 2015, EC-LEDS and USAID agreed that the Program met all Component Two targets and thus the Component is deemed complete and there will be no continuation of activities in year three.

C. COMPONENT THREE: NATIONAL EC-LEDS WORKING GROUP AND ADVISORY ASSISTANCE

I. Support to GOG in Developing the LEDS Document

During quarter two, year three, EC-LEDS intensified Component three activities, specifically updating MARKAL-Georgia, which included shifting the base year from 2012 to 2014 and checking/validating/updating all other data. EC-LEDS simplified the model to fit with available data and made easier for the Analytic Department (AD) of the Ministry of Energy (MOE) to operate. Remissia incorporated all comments from the AD MOE and DWG in the model. Several sensitivity scenarios (for GDP and population growth) were prepared and results were sent to the Climate Change Office of the Ministry of Environment and Natural Resources Protection. DWG started setting up the scenarios in MARKAL-Georgia for analysis of mitigation measures in close coordination with Remissia.

EC-LEDS prepared the preliminary Table of Contents (TOC) for the full LEDS document, while Remissia staff and experts continued work on the development of sectoral overviews for four LEDS

chapters (energy, buildings, transport, and industry). Each chapter includes a description of the current situation in each sector, past trends and existing development goals, as well as legislative base and institutional set-up for the sector. EC-LEDS analyzed the emission trends for the past years for all four considered sectors – power/energy, buildings, transport, and industry.

EC-LEDS elaborated the preliminary list of mitigation measures that will be analyzed using MARKAL-Georgia and sent them to the Ministry of Energy for their analysis in relation to overlaps with the National Energy Efficiency Action Plan. To include all actions that are strategically viable and underway, several meetings were carried out with respective departments in the Ministries, including: Energy Efficiency and Renewable Energy Department at the Ministry of Energy; Transport Policy department at the Ministry of Economy and Sustainable Development; and Air Protection Department at the Ministry of Environment and Natural Resources.

Industry questionnaires that were filled in by the site managements were analyzed for mitigation options and energy consumption indicators. Relevant metrics and indicators were developed (emissions per capita, emissions per GDP, etc) for each sector and where possible compared with similar metrics from other countries.

To build the technical capacity of the MOE AD staff, regular weekly meetings during this quarter were conducted by Remissia experts.

II. Analytical and advisory service

During the reporting period, EC-LEDS' COP, LEDS Advisor, and Remissia technical Director held regular weekly working meetings. The meetings were dedicated to the discussions on project progress as well as the updates of the LEDS document development process. EC-LEDS worked with the Climate Change office staff to coordinate works and research stipulated by the project. The project regularly assisted the MoENRP in analyzing the emission sources from various sectors as well as discuss mitigation options in the relevant sectors.

Based on the research and findings of the analyzed sectors, EC-LEDS worked out the total amount of emissions and calculated Business As Usual Emissions (BAU) for both energy BAU and non-energy BAU scenarios. The results were discussed with SWG experts. Defining the mitigation measures in the relevant sectors followed the process. EC-LEDS and CC office analyzed the strategic views of different Ministries – the major stakeholders of the LEDS process.

Additionally, EC-LEDS and CC office worked on organizing and arranging two main events: (1) the expert working group meeting and (2) coordination committee meeting, both planned for the end of March 2016.

III. Capacity building and technical assistance

EC-LEDS organized and conducted a number of working meetings with the Transport Sub Working Group at the Ministry of Economy and Sustainable Development. The new Transport SWG Head, and the members of the transport SWG, discussed a wide spectrum of issues related to transport sector emissions. EC-LEDS, transport SWG and the Head of Land Transportation Department discussed projects and strategies for the transport sector, the long term development plans, as well as strategies in land and railroad transport. The Ministry provided transport sector data on current projects along with related statistics.

EC-LEDS had a meeting with the Air Protection Department Head of the MoENRP. The meeting was dedicated to the discussions on air quality, air protection, and air pollution issues in the transport sector. The parties discussed GOG decrees # 124 and # 238, regulating the quality of the gasoline and diesel fuels in Georgia. They also discussed the European Union (EU) directives related to the EU-Georgia association agreement # 2009/30/EC related to fuel quality. EC-LEDS provided the results of the research and findings of LEDS in the field of transport related air pollution and GHG emissions.

EC-LEDS conducted a working meeting with the representatives of Georgian Railway (GR). The GR experts provided detailed information related to ongoing and planned projects of Georgian Railway, as well as trends of freight and passenger transportation. The parties also discussed the potential of Georgian Railway to increase freight cargo share of freight truck vehicles and thus reduce emissions related to cargo transportation. The mitigation measures related to Georgian railway system were also discussed at the meeting.

In cooperation with SWGs, EC-LEDS worked on transport sector mitigation options.

IV. Advisory assistance to GOG

The EC-LEDS Advisor, at the request of Ministry of Economy of Georgia, provided advisory services related to implementation of international alternative energy sources development projects in Georgia. The advisor analyzed the environmental effects and expected ecological benefits of the clean energy projects currently under development by the Japanese companies in Georgia.

The LEDS advisor had a meeting with the Deputy Head of Legal Department of the Ministry of Economy and Sustainable Development, and the representatives of a Japanese company, Fuji Furukawa, which works in the field of solar energy development. At the request of the Ministry, the LEDS Advisor provided information and analyses on alternative energy projects being currently under implementation in Georgia and their relevance to the LEDS process.

The LEDS advisor had a meeting with the Head of Tbilisi Municipality Transport Department. LEDS advisor provided LEDS findings related to the emissions from the transport sector, namely from the Tbilisi municipality transport. The parties also discussed the possibilities of introducing alternative, renewable, eco-friendly fuel for the municipality transport fleet.

V. Ensure involvements in international projects, trainings, and programs

EC-LEDS was very active during this quarter and participated in several seminars workshops, and meetings. A summary of these events are provided below:

• In February, the EC-LEDS Advisor participated in an international Seminar "Efficient Energy Use and Planning", organized and sponsored by the Swedish International Development Agency (SIDA). SIDA dedicated the seminar to modern technologies and trends designed to reduce energy consumption in the residential sector and to analyze the best practice of EU countries, which is relevant for the Eastern European countries.

- The LEDS advisor participated in an international seminar at Ilia State University. The aim of
 the seminar was to promote energy efficient buildings and to raise awareness about the
 benefits of energy efficiency and planning in residential buildings, promote new building
 materials, and the new trends in Green Architecture.
- On March 4, The EC-LEDS COP participated in the Stakeholders' Coordination Panel organized by the National Association of Local Authorities of Georgia (NALAG) under the USAID "Institutionalization of Climate Change Adaptation and Mitigation in Georgian Regions" project. Different experts presented the Road Map on Climate Change elaborated under the program. Participants actively discussed LEDS process related activities during the meeting.
- The EC-LEDS Advisor participated in the workshop and stakeholders meeting of the UNDP project, "Promotion of Biomass Production and Utilization in Georgia", which is supported and implemented by MoENRP. At the meeting, the attending experts and participants discussed ways to further develop alternative fuel production from biomass i.e. pellets and briquettes and related issues such as technologies, raw materials, legislations, in order to reduce fire wood consumption as the mitigation option to reduce GHG emissions in Georgia.
- EC-LEDS participated in Georgia's First Biennial Update Report (FBUR) to the UNFCCC; the project is managed by the UNDP. The workshop was focused on the Inventory of the GHG Emissions for the period of 2010-2013. The EC-LEDS Advisor and Remissia's Technical Director provided information and clarification to several issues related to Energy and Transport sectors emissions and respective mitigation measures to workshop participants.
- EC-LEDS took part in the Workshop "Developing a Green Growth Policy Paper for Georgia". The objective of the workshop was to present and discuss key findings and recommendations of the Green Growth paper with relevant stakeholder groups including government ministries and state agencies, business associations, NGOs, academy, a as well as international organizations.
- EC-LEDS participated in the work of the National Conference "Climate Change at the Local Level: Policy and Action", supported and financed by USAID. The National Conference was organized in the framework of the program "Institutionalization of Climate Change Mitigation and Adaptation in Georgian Regions" implemented by the National Association of Local Authorities of Georgia (NALAG).

D. PROJECT ADMINISTRATION

During year three quarter two, EC-LEDS completed the following project administration tasks:

- Received Modification number seven, dated March 22, 2016. As a result of this modification, the cooperative agreement is now fully obligated.
- Submitted interim comments on EC-LEDS Mid-Term Evaluation to USAID on January 8, 2016;

- Submitted responses to Limited Financial Review recommendations to USAID dated January 22, 2016:
- Received Final (revised) Mid Term Evaluation Report on February 3, 2016;
- Received an approval on Quarterly Progress Report of Year three, Quarter one on February 11, 2016;
- Received AOR approval on Grants Selection Memo, EC-LEDS Partial Grants Program Round two, on March 17, 2016; and
- Submitted Data Universal Numbering System (DUNS) waiver request for two (Akhaltsikhe and Telavi) Municipalities on March 10, 2016. As this waiver was not approved, Winrock started working with local municipalities on registration with DUNS;

E. LESSONS LEARNED

The following items were lessons learned during this quarter:

- The GoG needs more persistent advisory service, especially while preparing for the major international events;
- Extra meetings and trainings give more effect and ensure better results in combining with planned and regular sessions;
- The sectorial SWGs will work more effectively when they receive strict directions from the relevant ministries;
- The EC-LEDS project goes on much more successfully when the communication and cooperation with the stakeholders are even more intensive than planned earlier.

F. ENVIRONMENTAL PROTECTION ACTIVITIES

Under the scope of 22 CFR 216 Environmental Compliance Procedures and approved Programmatic Environmental Assessment (PEA) document, EC-LED Environmental specialist participated in technical evaluation process of the second round sub-grant applications in order to ensure incorporation of environmental safeguards into the technical designs of potential projects. A series of site-visits to the proposed sub-grant project locations were conducted. An Environmental Review Checklist and several Activity Specific Mitigation and Monitoring Plans for already selected sub-grant projects have been outlined. Final stipulation of the second round sub-grant projects related Activity-Specific Environmental Mitigation and Monitoring commitments will go in parallel with finalization of sub-grant projects related technical scope and specifications.

G. CROSS-CUTTING ACTIVITIES

i. National Public Communications and Outreach

In the reporting period, EC-LEDS produced a bilingual promotional brochure about EC-LEDS major accomplishments for distribution during EC-LEDS events and meetings.

EC-LEDS produced the Quarterly Newsletter Winter 2015/16 for distribution during EC-LEDS events and via e-mail.

In the reporting period EC-LEDS Outreach Team initiated a Facebook contest entitled "Energy Efficiency is a Smart Choice". The contest was launched on October 7 and ended on February 24th, 2016. The EC-LEDS Outreach Team posted a question once a week and awarded winners with EC-LEDS promotional caps, t-shirts, and key chains. A total of twenty winners have been awarded at the EC-LEDS office.

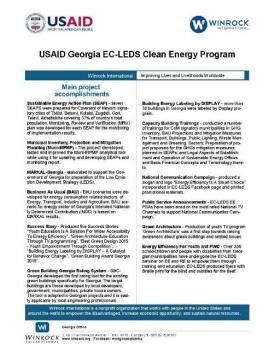


Photo 1. EC-LEDS Accomplishments brochure

During this reporting period, the EC-LEDS EE public service announcements (PSA) were aired on the National TV channels Imedi TV and Channel I.

The EC-LEDS Outreach Team produced two new PSAs. The program produced two 30-seconds films in which the audience is given examples of energy efficient facts convincing of doing or not doing any particular actions.

The content of PSAs are as follows:

PSA#I

During a sunny day, move curtains to use daylight efficiently.

If a tap is leaking one drop per second, you will lose 625 liters of water per month. 625 liters of water would fill three average size water tanks. Reducing water losses by at least 5%, we can save 40.3 m3 of water annually, which is 13.8 million kWh saved energy. The less water is used the less energy is consumed. Energy Efficiency is a smart choice!

PSA# 2

A laptop consumes 10% less energy than a PC.

When cooking, the size of a pan should fit the size of a burner.

By covering a sauce pan tight, you save 14% energy.

If fire goes out, it is necessary to close the cover in order to maintain warmth in the room generated from fire place or wood stove.







Photo 3. EC-LEDS PSA screenshot

EC-LEDS participated in the opening ceremony of the energy efficient and energy saving classroom in the Tbilisi State Academy of Art on March 25, 2016. The classroom was completed in the framework of a Memorandum between Union of Experts Sustainable Energy and Environment, LTD Nova, Company Izocam, and Tbilisi State Academy of Art. The goal of this activity was to showcase energy efficient and energy saving technologies to the guests and emphasize the importance of energy efficient measures to the students of architecture, construction and, energy faculties in the process of project design, construction or rehabilitation. The event was attended by Tbilisi Vice Mayor, Deputy Minister of Economy and Sustainable Development, Marketing Directior of IZOCAM and other honorable guests.

ii. People with Disabilities (PWD), Youth and Gender

Students from Sakramuli, Nichbisi and Sioni villages took part in the Youth Energy Efficiency Event on March 23, 2016. EC-LEDS empowers youth through training on energy efficiency and renewable energy technologies. The main objective is to involve youth in energy efficiency, contributing to climate change mitigation.

The students were selected from "Momavlis Taoba" (Future Generation) program partner schools from 9th to 11th grades of Mtskheta, TianeTi, and Dusheti Municipalities in collaboration with the Mtskheta-Mtianeti Committee of Anti-Violence Network of Georgia. The Committee implements Momavlis Taoba project with 27 partner public schools in the region. The "Momavlis Taoba" (MT) program, funded by USAID, is being implemented in Georgia by PH International and is supported by the Ministry of Education and Science of Georgia (MES).

During the event, students were given a presentation "How to Save Energy" followed by a contest "Energy Efficiency Is A Smart Choice" to demonstrate the EE skills acquired at the seminar. The seminar was conducted by the Dean of Energy and Telecommunications Faculty at the Georgian Technical University, Professor. Professor spoke about the importance of energy efficiency, ways of saving energy, energy audits, energy efficiency in the residential sector, energy efficient technologies, simple tips to save energy at home, energy efficient appliances, renewable energies, energy efficient/renewable energy projects implemented under donor support, energy efficiency, and climate change. The winners were awarded medals, and all students were given participation certificates.



Photo 4. EC-LEDS promotional items

iii. Cooperation with other USAID programs

EC-LEDS established good communication and cooperation with other USAID sponsored programs, including G4G, Waste Management Technologies in Regions, as well as the EU funded programs - ClimaEast, German-funded support for Buildings NAMA, and GIZ's support for Georgia's Intended Nationally Determined Contribution (INDC).

EC-LEDS continued cooperation with USAID's "Momavlis Taoba" (Future Generation) Program implemented by PH International and supported by the Ministry of Education and Science of Georgia (MES). In March students from Sakramuli, Nichbisi and Sioni villages took part in the Youth Energy Efficiency Event During the event, students were given a presentation "How to Save Energy" followed by a contest "Energy Efficiency Is a Smart Choice" to demonstrate the EE skills acquired at the seminar. The Dean of Energy and Telecommunications Faculty at Georgian Technical University, Professor Gia Arabidze, conducted the seminar.

IV. YEAR THREE WORK PLAN: DELIVERABLES SUBMITTED IN YEAR THREE QUARTER ONE

Component	Deliverable/Product	Date Submitted
All	EC-LEDS Quarterly Progress Report - Year 3 Quarter I	29-Jan-16
Component I	Workshop Report_Tbilisi November 2015	29-Jan-16
Public Outreach	Community Based Social Marketing Campaign Design Report	29-Jan-16
M&E	GIS Data Collection Template - Year 3, Quarter I	12-Feb-16
Component I	Memo on Updated MARKAL-Georgia Model	29-Feb-16
Component I	Memo on the Mitigation Measures for MARKAL-Georgia	29-Feb-16
Component I	Grant Selection Memo - Round Two	29-Feb-16
Component I	Grant Selection Memo	10-Mar-16
Component I	EC-LEDS Request for Grant Approvals	22-Mar-16
Component I	Sustainable Energy Action Plan for Bolnisi (Geo)	31-Mar-16
Public Outreach	Media Coverage Report _ March 2016	31-Mar-16
Component 3	Memo on Selection of Mitigation Measures for Each Energy/MARKAL Sector and Characterization of Mitigation Measures Parameters for Georgia's Context	31-Mar-16

The indicators with year three targets include outcome indicators OC2; OC3; OC4 OC5; OC6; OC7; OC8 and output indicators OP1, OP2, OP4, OP5, OP6, OP7, OP8, OP10, OP11, OP13, OP14, OP15, OP17, OP18, OP22. During quarter two of year three, progress was demonstrated in most of the indicators and some of them even exceeded defined targets. Other activities in all components and cross-cutting issues are being carried out as planned and measurable results will be documented as they are achieved.

During this reporting period, EC-LEDS uploaded all datasets to Open Data Center web-portal. In addition, datasets developed in Y3Q1 & Y3Q2 were submitted to AOR for review. Furthermore, all intellectual outputs elaborated in Y3Q1 & Y3Q2 were uploaded on Development Experience Clearinghouse (DEC).

				(GHG) emiss G assistance (asured in	metric t	ons of CO	₂ equivaleı	nt (CO _{2e)} ,	
reduced or	sequesti	ci ca as a	1103410 01 03	• assistance (OC 2)						
Unit:	DISAGGREGA	TE BY: None									
Metric tons of	Geogr	raphic Locat	ion	Event	Date				total		
CO ₂											
Results:			1								
Additional C	riteria	Baseline	,	Y1	Υ	72		Y3	End of	Project	
If other criter			Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved	
important, add											
setting targets an	d tracking										
Metric tons of	FCO ₂	0	20,000	0	43,000		55,000		236,000		

Unit:	DISAGGREGAT	TE BY: None								
GW/h _e	Geogr	raphic Locati	ion	Event			Date		total	
Results:										
Additional (Criteria	Baseline		(1	Y	7 2		Y3	End of	Project
If other crite important, ad			Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved
setting targets of										
GW/h _e		0	20,000		42,000		75,000		315,000	

Unit:	DISAGGREGA	TE BY: None								
USD	Geog	raphic Locati	on	Event		Date			total	
esults:	al Criteria	Baseline		(1	,	/2		Y3	End of	^r Project
If other criteria are important, add lines for setting targets and tracking			Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved
USDMillion										
		0	0	0	4.0	3.36	3.64		14	

			al organization tance (OC 5)	ons positioned	l to receiv	ve USG f	unding ar	nd implem	ent USG _l	orojects
Unit:	DISAGGREGA	TE BY: Regior	or Municipality							
USD	Geog	raphic Locati	ion	Event	Date				total	
Results:	1					'	1 1			
Additional C	riteria	Baseline	.,	YI.	Υ	′2	,	Y3	End of	Project
If other criter important, add			Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved
setting targets ar	nd tracking									
USD Million										
		0	0	0	0		1		1	

INDICATOR TITLE	: Percen	tage of i	individuals re	ached by the ր	oublic aw	areness c	ampaigr	who take	at least o	ne energy	
saving actio	n (OC 6)									
Unit:	DISAGGREGA	TE BY: None									
G of individuals Geographic L		raphic Locati	aphic Location Event			Date			total		
Results:			1			'	1 1				
Additional C	riteria	Baseline	,	YI	Υ	72		Y3	End of	Project	
If other criter important, add			Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved	
setting targets an											
		0	0	0			10%		10%		

JNIT:	DISAGGREGA	TE BY: None								
Gigajoules (GJ)		raphic Locati	on	Event			2	total		
Results:										
Additional	Criteria	Baseline	,	ΥI	У	' 2		Y3	End o	f Project
If other criteria are important, add lines for setting targets and tracking			Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved
					19 929	19 929	44,583,4 06.65			
		0	0	0	600	600				

JNIT:	DISAGGREGA	TE BY: None								
Metric tons of	Geog	raphic Locati	ion	Event				total		
esults:										
Additional	Criteria	Baseline		<u></u>	У	<u> </u>		Y3	End of	· Project
If other criteria are important, add lines for setting targets and tracking			Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved
					1,699,54	1,699,54	3,237,40			
		0	0	0	9.7	9.7	2.00			

assistance					velopment pl	ans devel	oped and	l/or imp	lemented a	as a result	of USG
Unit:	DISAGGREGA [*]	TE BY: P hase	of imple	mentation (developed, impleme	ented)					
No. of Plans	Geographic Location			Event			Date		total		
developed	d Bolnisi			SEAP for Bolinisi Municipality		January-March, 2016		rch, I			
Results:								1 1			
Additional	Criteria	eria Baseline		Y	YI		Y2		Y3	End of Project	
If other criteria are important, add lines for			Т	arget	Achieved	Target	Achieved	Target	Achieved	Target	Achieved
setting targets and tracking											
No. of Plans developed		0		3	3	4	4	3	1	10	

INDICATOR TITLE N established in				`	Os) or sh	ared Sus	tainable	Energy Re	source Ce	enters	
UNIT: DIS	SAGGREGAT	TE BY: New	offices, ongoing	offices							
No. of	Geogr	aphic Locat	ion	Event		Date			total		
Sustainable —											
Energy											
Offices/											
Sustainable											
Energy											
Resource											
Centers											
established											
Results:											
Additional Criteria		Baseline		YI	γ	′2		Y3	End of Project		
If other criteria are important, add lines for			Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved	
setting targets and tracking											
No. of Offices created		0	0	0	3	0	2		5		

Indicator Title	: Numbe	r of stak	eholders usir	ng climate info	rmation i	n their de	ecision m	naking as a	result of	USG
assistance (OP 4)									
Unit:	DISAGGREGA	TE BY: None								
Number of Stakeholders	Geog	raphic Locat	ion	Event				total		
Results:	Criteria	Baseline		YI		72		Y3	End of	Project
If other crite important, add setting targets a	eria are d lines for		Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved
No. of Stakeho	olders	0	8	12	6	8	2		16	

			•	rategies, plans or implemente	_				_	change	
UNIT:	DISAGGREGAT	TE BY: None									
Number of Laws, Policies,	Geogr	aphic Locati	ion	Event				total			
Strategies											
Results:											
Additional Criteria		eria Baseline		YI		Y2		Y3		End of Project	
If other criteria are important, add lines for			Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved	
setting targets ar	nd tracking										
No. of Laws, P	olicies,								I adopted		
Strategies		0	I proposed	I proposed	I proposed		I adopted		2 proposed		

Indicator Title				_	_	ls, techno	ologies or	· method	ologies de	veloped, t	ested
Unit:	DISAGGREGA [*]	TE BY: None									
Number of	Geogr	raphic Locat	ion		Event		Date			total	
Results:			1					1 1			
Additional Cr	iteria	Baseline		ΥI		Υ	72		Y3	End of	Project
If other criter important, add			Tarş	get	Achieved	Target	Achieved	Target	Achieved	Target	Achieved
setting targets and											
No. of Tools	No. of Tools 0			2	2	2	2		5		

INDICATOR TITLE: USG assistar			useholds/ busi	ness/ public ir	nstitution	s implem	enting e	nergy effic	iency mea	asures as a result of
UNIT:	·	•	e HH, Businesses, In	stitutions						
No. of electricity	Geog	graphic Loca	tion	Event		Date			total	
consumers implementing energy efficiency measures										
Results:			<u> </u>				<u> </u>			
Additional Cri		Baseline	Y	Y	′2		Y3		End of Project	
If other criteri			Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved
setting targets and	l tracking									
					500		1000		1500	
		0					8		10	
No. of Households			0	0	2					
No. of businesses		0								
No. of institutions		0			2		8		10	

JNIT:	DISAGGREGA	TE BY: None								
No. of climate	Geog	raphic Locatio	on	Event		Date			total	
change	For all munic	ipalities	Kutaisi "To	pedo" –" Installation	of Solar Thermo	al l				
mitigation			System and	Lighting"			2			
orojects			Tbilisi Elder	Tbilisi Elderly house—" Installation of Solar Thermal						
5. 0,000	System and Lighting"									
D/k										
Results:										
Additional C	riteria	Baseline	γ	1	Y	2		Y3	End of	^r Project
If other crite	ria are		Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved
important, add	lines for									
setting targets ar	nd tracking									
No. of Projec		o	0	0	5	2	15		20	

JNIT:	DISAGGREGATE	BY: None								
Number of	Geographi	c Location		Event		Date			total	
ndividuals	Village Misakts	ieli, Georgia	Youth EE Event Present	ation "How to Save Ene	rgy"	December 15, 2015	22 female, 2	21 male (4	3 total)	
			Contest "Energy Efficier	ncy Is A Smart Choice"						
			People reached through	EC-LEDS Facebook		October-December, 2015	2585 likes o	n facebool	C	
	Mtskheta, Geo	rgia	Youth EE Event "How to Save Energy -Contest Energy" - Ma Contest Efficiency Is A Smart Choice"			March 23, 2016	24 female, l	17 male (to	tal 41)	
			People reached through	EC-LEDS Facebook		January-March, 2016	3230 likes o	n facebool	•	
Results:	 		<u> </u>							
Additional	Criteria	Baseline		ΥI		Y2	Y3 (Q1	+Q2)	End o	f Project
If other criteria a	ıre important,		Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved
add lines for settii	ng targets and									
tracki	ing						3314			
No. of Individua	ls	0 250,000 254,157 500,000		264,047	250,000	2607	l million			

INDICATOR TITLE: Number of USG-supported training or activities that contribute to building the EE knowledge and skills in the GOG, Municipalities, industry and other stakeholders (OP 11) DISAGGREGATE BY: None UNIT: Number of Geographic Location Event Date total Training activities Village Misaktsieli Youth EE Event Presentation "How to Save Energy" December 15, 2015 Bolnisi Meeting with local experts and municipality staff on November 20, 2015 Covenant of Mayors and SEAPs **Tbilisi** Preparation of project proposals for the GHGs November 27, 2015 mitigation measures to be implemented in the sectors considered in SEAPs December 2, 2015 Meeting with Deputy Governor and coordinators on Covenant of Mayors Telavi and SEAPs February 19, 2016 Meeting with local farmers and staff of Bolnisi Municipality Bolnisi March 3, 2016 Meeting with staff of Telavi Municipality <u>Telavi</u> Training on SEAP Monitoring March 31, 2016 <u>Tbilisi</u> Youth EE Event Presentation "How to Save Energy" March 23, 2016 Mtskheta

Results:									
								•	
Additional Criteria		ΥI		Y2		Y3 (Q1+Q2)		End of Pro	iect
If other criteria are important, add lines for		Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved
setting targets and tracking	Baseline								
No. of Training activities	0	6	10	30	22	14	8	50	

INDICATOR TITLE pilot project	_	rants disbur	sed as a resu	ılt of USG as	ssistance fo	or scienti	fic res	earch and ei	nergy efficier	тсу
Unit:	DISAGGREGATE	BY: None								
Value of grants	Geographic Lo	cation	Event		Dat	e	Total			
distributed	For all municipa	lities								
Results:										
Additional B	aseline	Y	7)	/2		Y	/3	End of Proje	ect
Criteria		Target	Achieved	Target	Achieved	Target		Achieved	Target	Achieved
If other criteria										
are important,										
add lines for										
setting targets										
and tracking										
Value of 0					\$175,012					
grants		0	0	300,000		324	988		500,000	

efficiency (O	P 14)									
UNIT:	DISAGGREGA	TE BY: None								
No. of Plans	Geographic Location		on	Event	Date				total	
Results:	Criteria	Baseline		YI		Y2		Y3	End o	^r Project
If other crit	eria are	<i>Justime</i>	Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved
setting targets of No. of Plans	-			2 (Implementation Ongoing)						
		0	2	- 0 - 0/	2	2	2	2	2	2

INDICATOR TITLE: Number of beneficiaries receiving improved infrastructure services due to USG assistance (OP									
15)									
UNIT:	DISAGGREGATE BY: No	one							
No. of	Geographic Loc	ation	Event		Date			total	
beneficiaries									
receiving									
improved									
infrastructure									
services									
Results:									
Additional Crite	ria Baseline	YI)	′2		Y3	End of	^r Project
If other criteria important, add line		Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved
setting targets and t									
No. of Beneficia	ries 0	0	О	ı		2		3	

INDICATOR TIT	LE: Numbe	r of MRV	plans develo	ped to track	impact	of SEAPs i	mpleme	ntation(O	P 17)	
Unit:	Disaggregat	e by: None								
No. of Plans	Geographic	Location	Event			date	toto	ıl		
	Bolnisi MRV Plan or Bolnisi					January-March, I 2016				
Results:										
Additiona	l Criteria	Baseline	Υ	I		Y2,		Y3	End of	Project
-	er criteria are important, add for setting targets and tracking		Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved
No. of	Plans	0	4	4	3	3	3	I	10	

Unit:	DISAGGREGATE B	Y: None								
No. of	Geographic Lo	ocation		Event		Date			total	
ndividuals	Tbilisi		On-job training on elab Department of Ministry		•	October-Decem	ber,	5 (2 fe	emales, 3 males)
	Tbilisi		Training on Preparatior GHGs mitigation measo sectors considered in SI	ures to be implemente		November 27 2015	7,	23 (12 f	remales, II mal	es)
	Tbilisi Tbilisi		Training on SEAP Moni On-job training on Mar	-	wable model	March 31, 2016 January-March, 2016		II (4 females, 7 males) 5 (2 females, 3 males)		•
Results:						1				
Addition	ıl Criteria	Baseline		ΥI		Y2		Y3	End o	f Project
If other criteria add lines for set trac	ting targets and		Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved
No. of Individua	ls	0	10	67	40	40 171 20 44		70		

INDICATOR TITLE	: Numbe	er of deci	isions made	by LEDS steer	ing comr	nittee or	involved	agencies	using analy	sis based
on MARKA	L or othe	er appro	priate tools	(OP22)						
Unit:	DISAGGREGAT	TE BY: None								
Number of	mber of Geographic Local		on	Event		Date		total		
decisions										
Results:										
Additional C	riteria	Baseline		ΥI	Y2		,	Y3 End of Proje		Project
If other criter important, add			Target	Achieved	Target	Achieved	Target	Achieved	Target	Achieved
setting targets ar	•									
No. of decision	ons		0	0	2		2		4	

ANNEX I: SCHEDULE OF PLANNED FUTURE EVENTS

A. COMPONENT ONE

Continue technical support in the development of SEAPs and project proposals for the remaining two municipalities

Continue providing capacity building for the Municipality representatives by conducting

- a. Workshops (2)
- b. On the job trainings (regular)
- c. Technical tools (final version of muni-EIPMP)

B. COMPONENT TWO

Task Completed

C. COMPONENT THREE

Technical assistance:

- a. Analysis of mitigation options
- b. Development of MARKAL-Georgia Guidebook
- c. Development of four LEDS chapters on energy sector, buildings, transport, and industry facilitation of LEDS discussions.
- d. Facilitation in organizing LEDS steering committee meetings, sub-working groups meetings, and experts groups meetings to discuss LEDS document table of contents, technical analysis of sectors, sectoral strategies, and mitigation options;
- e. Training of Analytic Department of the Ministry of Energy for policy analysis by using MARKAL-Georgia

D. PUBLIC OUTREACH

Airing EC-LEDS EE PSAs will continue on National TV channels. EC-LEDS Youth EE Events will take place in April and June 2016 in Rustavi and Kutaisi municipalities.

CBSM pilot will be launched in Kutaisi in the beginning of June, 2016 (date of launch will be confirmed by Kutaisi Municipality in mid-May).

Table 3. Upcoming Events for year three, quarter two

Component	Event	Date/Location
Public Outreach	Youth EE Event	Rustavi, April, 2016
Public Outreach	Youth EE Event	Kutaisi, June, 2016
Public Outreach	CBSM Kutaisi Pilot	June, 2016 (launch date will be confirmed in May 2016)

E. ENVIRONMENTAL COMPLIANCE

EC-LEDS program will continue finalizing the second round sub-grant projects related Activity-Specific Environmental Mitigation and Monitoring documentation in accordance with USAID environmental compliance procedures and approved EC-LEDS PEA.

ANNEX II:QUARTER THREE PLANNED DELIVERABLES AND PRODUCTS

A. COMPONENT ONE

- Telavi SEAP with MRV plan and Project Proposal
- English version of Bolnisi Municipality SEAP, MRV Plan and Project Proposal.
- Training Report.
- Establishment of SEO or SEO functions integrated in 4 Municipalities

B. COMPONENT TWO

Task Completed

C. COMPONENT THREE

- Overview of each sector considered in MARKAL(Energy, Transport, Industry, Building) developed including trend analysis
- Updated BAU Report
- Analysis of Selected Mitigation Measures Using MARKAL-Georgia

D. COMMUNICATIONS AND OUTREACH

As part of the EC-LEDS outreach activities, the program will produce media coverage reports for upcoming events and Report on Youth EE Events where applicable. A series of printed materials in the framework of CBSM campaign will be prepared, including flyers on energy efficiency and renewable energy. The Communication plans for the SEAPs will be prepared. EC-LEDS will produce Report on findings of CBSM pilot in Kutaisi Municipality.

E. MONITORING AND EVALUATION

Intellectual outputs will be uploaded to Development Experience Clearinghouse.

F. ENVIRONMENTAL COMPLIANCE

Following the scope of 22 CFR 216 Environmental Compliance Procedures and approved Programmatic Environmental Assessment (PEA) document, EC-LEDS will analyze selected sub-grant activities against specific impact factors, including: the character of proposed actions, the type of structural measures, and whether the proposed structural actions, their impacts, and mitigation measures are considered in the PEA defined EMMPs. Depending on the project -specific individual assessments, either "Activity-Specific Environmental Monitoring and Mitigation Plan (EMMP) and/or Environmental Review Checklists (ERCs)" documents will be produced. Right after the completion

of the project related activities, "Record of Compliance with the EMMP" document will be submitted to USAID.												

ANNEX III: REPORT ON EC-LEDS YOUTH ENERGY EFFICIENCY EVENT





ENHANCING CAPACITY FOR LOW EMISSION DEVELOPMENT STRATEGIES (EC-LEDS) CLEAN ENERGY PROGRAM

COOPERATIVE AGREEMENT NO. 114-A-13-00008

REPORT ON EC-LEDS YOUTH ENERGY EFFICIENCY EVENT MTSKHETA



March 2016

This publication was produced for review by the United States Agency for International Development. It was prepared by Winrock International Georgia.

ENHANCING CAPACITY FOR LOW EMISSION DEVELOPMENT STRATEGIES/EC-LEDS CLEAN ENERGY PROGRAM

REPORT ON EC-LEDS YOUTH ENERGY EFFICIENCY EVENTS

March, 2016

DISCLAIMER

The author's views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States Government.

EXECUTIVE SUMMARY

The EC-LEDS Youth Energy Efficiency Event was held in Mtskheta on March 23rd, 2016. Participants of the events were youth in the 9th-12th grades selected from the "Momavlis Taoba" (Future Generation) Program. The purpose of the event was to involve youth in energy efficiency, contributing to climate change mitigation.

This report presents a description, the list of participants, and an overview of materials used for the event.

YOUTH EE EVENT

PARTICIPANTS

The EC-LEDS Youth Energy Efficiency Event was attended by a total of 41 youth in the 9th to 12th grades from the villages of Sakramuli, Nichbisi and Sioni (24 females, 17 males).

Full lists of participants are provided in **Attachment A**¹.

CONTENT

The EC-LEDS Youth Energy Efficiency Events were 2.5 hours long, of which the first two hours were dedicated to "How to Save Energy". The seminar covered the following topics:

- What is Energy Efficiency: A brief introduction to energy efficiency and explanation of energy terms.
- Ways to Save Energy: Various ways to save energy and the energy audit.
- **Information Campaigns**: A brief description of advertising and information campaigns about energy efficiency.
- The Importance of Energy Efficiency: The importance of energy efficiency with regard to the rational use of energy, energy security of the state, and the importance of energy efficiency for Georgia.
- **Energy Efficiency in the Residential Sector**: How to save energy at home.
- **Energy Efficient Technologies**: An introduction to technologies and appliances.
- **Renewable Energies**: Renewable energy sources were discussed with examples of technologies and how to use them.
- Energy Efficient Projects: Some energy efficient projects supported by donor organizations.

In the second part of the event the students participated in contests and given simple EE tests covering the topics of the session. The top three winners were awarded with medals. All students and teachers were awarded with participation certificates. The contest questions are provided in **Annex B**.

PRESENTER

The EC-LEDS Youth energy efficiency events were conducted by Dean of Energy and Telecommunications Faculty at Georgian Technical University, Professor. The seminar topics and presentation were developed specifically for EC-LEDS Youth Energy Efficiency Event by presenter in cooperation with EC-LEDS staff.

¹ The list of participants misses 2 students.

VENUE, TIMING AND LOGISTICS

The EC-LEDS Youth Energy Efficiency Event was held in the building of Mtskheta Municipality Gamgeoba (Administrative Body of the Mtskheta Municipality).

The materials were in Georgian and the events were free for all participants.

The event was organized by EC-LEDS in collaboration with of PH International within the framework of the USAID-supported "Momavlis Taoba" (Future Generation) Program.

CONCLUSION

Youth participated actively, with questions and lively discussions. All participants noted the importance of organizing similar events, as such meetings contributed to their awareness of the subjects. They were satisfied with all aspects of the training and confirmed that the presentations met their expectations. After the events, students made commitments to conduct simple home energy audits and spread the word about energy saving among their families and schools.







Contest "Energy Efficiency Is A Smart Choice"

Name, Surname
City
School #
Please select the correct answer:
Location of a refrigerator near heating devices affects the efficiency of its operation: Positively
b. Negatively
2. A TV set in stand-by mode consumes electricity:
a. Yes
b. No
3. What is the impact of hot dishes placed in the refrigerator?
a. Reduces energy consumption of the appliance
b. Increases energy consumption of the appliance
4. Is it more efficient to read a book by the window to use daylight efficiently? a. Yes b. No
5. When using water heater tank (e.g. Thermex) should the regulator be set at the maximum position?
a. Yes
b. No
6. In order to maintain warmth in the room generated from fire place or wood stove, is there
need to lower or close the cover in case of their extinguishment?
a. Yes
b. No
7. 80% of consumed energy in a dwelling is consumed by:
a. Heating
b. Cooking
c .Water heating

o. Is it possible to detect a draught's direction with a candle:
a. Yes
b. No
9. Is it necessary to ensure air tightness of doors and windows to reduce energy consumption?
a. Yes
b. No
10. Can packaging tape ensure energy saving if it is fixed on both sides of a cracked window glass?
a. Yes
b. No
11. Is it more efficient to open a window frequently and for a short time to air a storage area?
a. Yes
b. No
12. When do we spend were appropriately taking a both and above?
12. When do we spend more energy: while taking a bath or a shower?
a. Bath
b. Shower
13. When cooking, can improperly selected saucepans be a cause for energy loss?
a. Yes
b. No
14. When cooking, should a pan fit the size of the burners?
a. Yes
b. No
15. A rounded bottom or wrong size of a pan prolongs cooking time by:
a. 10%
b. 40%
c I 20%
C 120/8
16. Can a label fixed on home appliances help us detect the energy efficiency of an appliance?
a. Yes
b. No
17. Can we save energy if we turn the TV set off of stand-by mode?
a. No
b. Yes
18. In order to save energy one should start ironing:
a. From the lowest temperature

19. Is it possible to get the same light from 25 watt bulb as from 100 watt bulb?
a. Yes
b. No
20. By using modern energy efficient bulbs, we can reduce energy consumption by:
a. 15%
b. 60%
b. 30%

b. From the highest temperature _____

Correct Answers

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
ı)	a	b	a	b	a	a	a	a	a	a	a	a	a	b	a	a	a	a	Ъ

ATTACHMENT C: AWARDS

Certificate



Medals



Caps, T-shirts, Pens







ENHANCING CAPACITY FOR LOW EMISSION DEVELOPMENT STRATEGIES (EC-LEDS) CLEAN ENERGY PROGRAM

COOPERATIVE AGREEMENT NO. 114-A-13-00008

MEDIA COVERAGE REPORT



March 2016

This publication was produced for review by the United States Agency for International Development. It was prepared by Winrock International Georgia.

ENHANCING CAPACITY FOR LOW EMISSION DEVELOPMENT STRATEGIES (EC-LEDS) CLEAN ENERGY PROGRAM

MEDIA COVERAGE REPORT

March, 2016

DISCLAIMER

The author's views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States Government.

Source: CENN Network Date: March 23, 2016

Title: Energy Efficiency Is A Smart Choice – Youth EE Event Continues

in Mtskheta-Mtianeti Region

The USAID-supported Enhancing Capacity for Low Emission Development Strategies (EC-LEDS) Clean Energy Program empowers youth through training on energy efficiency and renewable energy technologies. Students from the villages of Sakramuli, Sioni and Nichbisi took part in a Youth Energy Efficiency Event on March 23, 2016 at 14:00 pm, to discuss energy efficiency contributing to climate change mitigation.

The students were selected from Momavlis Taoba (Future Generation) program partner schools in the 9th to 11th grades of Mtskheta, Mtianeti and Dusheti Municipalities in collaboration with the Mtskheta-Mtianeti Anti-Violence Committee Network of Georgia. The Committee implements the Momavlis Taoba project with 27 partner public schools in the region. The Momavlis Taoba program, funded by USAID, is being implemented in Georgia by PH International and supported by the Ministry of Education and Science of Georgia.

During the event, carried out in the Misaktsieli School, students were given a presentation on "How to Save Energy". This was followed by a contest, "Energy Efficiency is a Smart Choice", to demonstrate the Energy Efficiency skills acquired at the seminar. This seminar was carried out by the Dean of the Energy and Telecommunications Faculty at Georgian Technical University, Professor. Professor described energy efficiency, ways of saving energy, the energy audit, energy efficiency in residential sectors, energy efficient technologies, simple tips to save energy at home, energy-efficient appliances, renewable energies, energy efficient/renewable energy projects carried out with donor support as well as energy efficiency and climate change. The winners received medals, and all students were given participation certificates.

The EC-LEDS Clean Energy Program is supported by USAID and implemented by Winrock International Georgia. Through this project, USAID supports Georgia's efforts to increase climate change mitigation through energy efficiency and clean energy activities and enable more responsible management and development of Georgia's natural resources.

Source: Commersant.ge Date: March 25, 2016

Title: Opening of the Energy Efficient and Energy Saving Classroom in

the Tbilisi State Academy of Arts

On March 25th the Tbilisi State Academy of Arts will host the opening ceremony of Energy Efficient and Energy Saving Classroom. The classroom was completed in the framework of a Memorandum between Union of Experts Sustainable Energy and Environment, LTD Nova, Company Izocam and Tbilisi State Academy of Art.

This project was implemented with the financial support of NOVA ltd and Company IZOCAM. The goal of this activity is to showcase the energy efficient and energy saving technologies to the guests and emphasize the importance of energy efficient measures to the students of architecture, construction and energy faculties in the process of project design, construction or rehabilitation. Issues of efficient cooperation and support are under discussion among ministries, embassies and universities.

The event will be attended by Tbilisi Vice Mayor, Deputy Minister of Economy and Sustainable Development, Winrock International (USAID supported Program EC-LEDS) Chief of, Marketing Direction of IZOCAM and other honorable guests.